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Appl. No. 09/926,167
Petition for Amendment After Allowance
January 31, 2005

AMENDMENT TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-63 (cancelled).

Claim 64 (previously presented): A chemical composition having oxygen transporting capability comprising 2,5,7,8-tetramethyl-2-carboxy-chroman-6-ol (Trolox) conjugate of o-raffinose polymerized hemoglobin (PolyOR-Hb), wherein a ratio of Hemoglobin (Hb) to Trolox during a conjugation is at least 1:1; wherein said composition is prepared by the conjugation of Trolox to o-raffinose polymerized hemoglobin under deoxy or carbonmonoxy condition; and wherein said composition provides greater protection of red blood cells (RBCs) against lysis.

Claim 65 (previously presented): The composition of claim 64, wherein the hemoglobin is intramolecularly cross-linked.

Claim 66 (previously presented): The composition of claim 65, wherein the hemoglobin is intramolecularly crosslinked with oxidized raffinose.

Claim 67 (previously presented): The composition of claim 65, wherein the hemoglobin is intramolecularly and intermolecularly cross-linked.

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Claim 68 (previously presented): The composition of claim 64, wherein the hemoglobin is deoxyhemoglobin.

Claim 69 (previously presented): The composition of claim 64, wherein the hemoglobin is carboxyhemoglobin.

Claim 70 (previously presented): The composition of claim 64, wherein the Hb:Trolox ratio is 1:1 – 1:3.7.

Claim 71 (previously presented): The composition of claim 64, wherein the Trolox is conjugated to PolyOR-Hb under the deoxy condition to prepare said composition with a P50 of 41 mm Hg.

Claim 72 (previously presented): The composition of claim 64, wherein the Trolox is conjugated to PolyOR-Hb under the deoxy condition to prepare said composition with a P50 of 40 mm Hg.

Claim 73 (currently amended): The composition of claim ~~65~~ 64, wherein the Trolox is conjugated to PolyOR-Hb under the ~~deoxy~~ carbonmonoxy condition to prepare said composition with a P50 of ~~40~~ 16 mm Hg.